DOCUMENT MANAGEMENT SYSTEM

Doc# NSCS-M-P-7093-02-26
Title: Testing Conductivity
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Desc: Testing Conductivity
Loc: Midwest - Utilities-Midwest - Plant Maintenance-Midwest-Gary Works

STEPS	PROCEDURES
Process Overview	Conductivity is checked online at the Chrome Treatment Plant. There are probes on the incoming chrome wastewater lines and in the Trench Sump.
Incoming Wastewater	The incoming wastewater lines probe measures the combined conductivity from the Tin and Chrome basement sumps and is monitored at the Chrome Treatment Plant. There is no automatic shutdown point for the Chrome Treatment Plant incoming wastewater; it is an alarm only. Each of the basement sumps also has two discrete conductivity probes monitored at each of the production lines. There are both alarms and shutdown levels at each basement sump. The alarm setpoint is at [redacted] mS/cm and the sump pump shutdown point is [redacted] mS/cm.
Trench Sump	The Trench Sump conductivity probe measures any recycled water from the Chrome Treatment Plant or water from the Chrome Containment Trench. Conductivity in the trench may be attributed to sulfuric acid, chrome, as well as any stormwater run-off in the area. The Trench Sump conductivity meter alarms at [redacted] mS/cm but does not have a control function to initiate a shutdown or other automatic response.
Corrective Action	If the meter(s) are out of range or are not functional, notify Instrument Repair. If the measurement exceeds the alarm point at either Chrome Treatment Plant location, determine if the plant is operating properly and contact the manager to investigate possible sources. Refer to SOP NSCS-M-P-7093-02-11 for further corrective action.